



U.S. Department
of Transportation
Pipeline and
Hazardous Materials
Safety Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0704/S, REVISION 0

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model XN162/3 (Manufactured on or after September 27, 1996).
2. Source Description - Cylindrical double encapsulation with rectangular end piece extension made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions of the cylindrical portion are 16.7 mm (0.66 in.) in diameter and 12.8 mm (0.5 in.) in length. Approximate outer dimensions of the rectangular end piece extension are 38.0 mm (1.5 in.) in height, 19.0 mm (0.75 in.) in width, and 3.2 mm (0.13 in.) in depth. Minimum wall thickness of the outer encapsulation is 0.04 mm (0.002 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62802, Rev. B.
3. Radioactive Contents - No more than 37.0 GBq (1.0 Ci) of Strontium-90. The Sr-90 is in the form of a ceramic enamel.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires March 31, 2010.

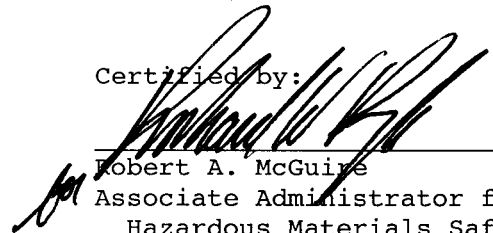
1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

CERTIFICATE USA/0704/S, REVISION 0

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated February 17, 2005 and March 7, 2005 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:



Robert A. McGuire

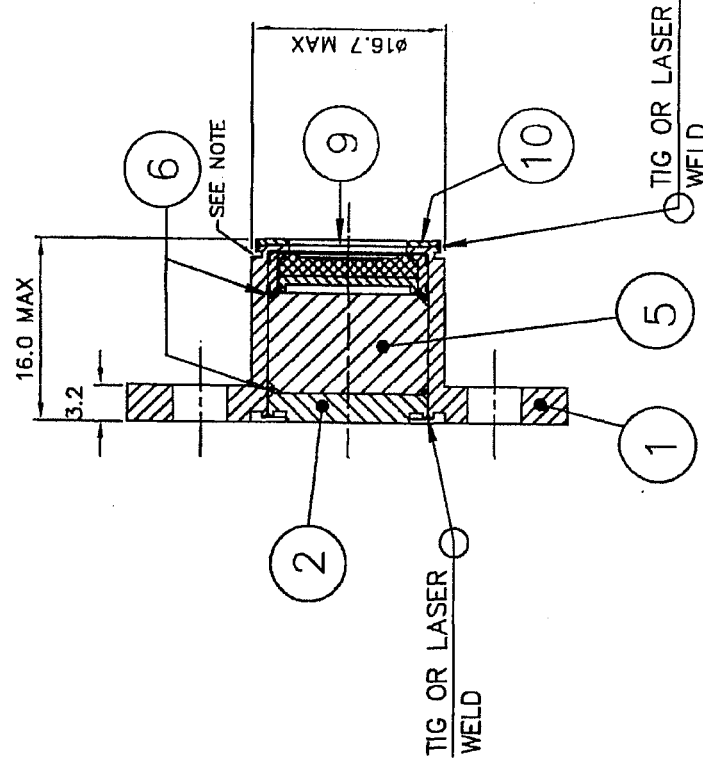
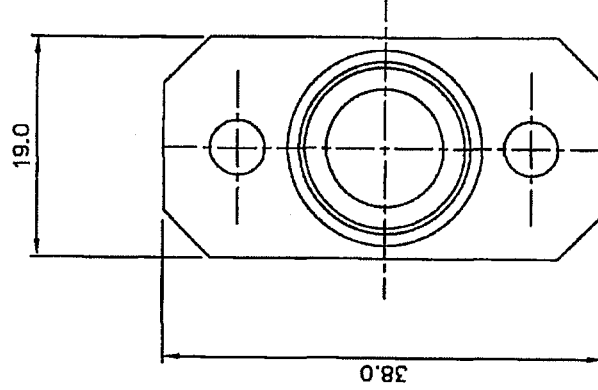
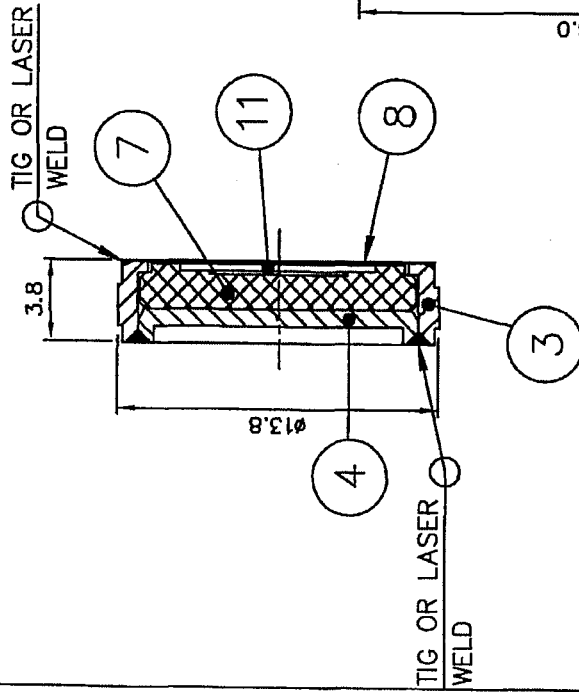
Associate Administrator for
Hazardous Materials Safety

MAR 17 2005

(DATE)

Revision 0 - Original issue.

ENLARGED CELL DETAIL
SCALE 2/1



ITEM	DESCRIPTION	QTY
1	SHEATH BODY	1
2	SHEATH LID	1
3	CELL BODY	1
4	CELL LID	1
5	PLUG	1
6	PACKING RING	1
7	CELL INSERT	1
8	CELL WINDOW	1
9	SHEATH WINDOW	1
10	RETAINING RING	1
11	ACTIVE MATERIAL	A/R

APPROVALS	
<i>[Signature]</i>	<i>[Signature]</i>
<i>[Signature]</i>	<i>[Signature]</i>

DIMENSIONS IN MILLIMETRES
UNLESS OTHERWISE STATED TOLERANCES:

$\pm .05$	INTERNAL	$\pm .05$
$\pm .1$	EXTERNAL	$\pm .1$
$\pm .05$	ANGULAR	$\pm .5$

DESCRIPTIVE
DRAWING

AEATECHNOLOGY
CORP.

40 NORTH AVE., BURLINGTON, MA 01803

TITLE XN162/3 CAPSULE ASSEMBLY

SIZE	DWG. NO.	SCALE	SHEET 1 OF 1	REV
A	RBA62802	NONE		B

NOTE: RECESS NOT PRESENT ON ALL CAPSULES

ERF # 1008